

EW-516iW

**16 Port Nway Fast Ethernet
Web Smart Switch**

User's Manual

Web Smart Switch

Configure

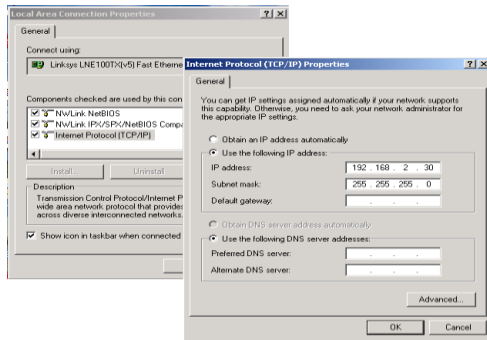
Please follow the steps to configure this Web Smart switch.

Step 1:

Use a twisted pair cable to connect this switch to your PC.

Step 2:

Set your PC's IP to 192.168.2.xx.



Step 3:

Open the web browser (like IE...), and go to 192.168.2.1 site, and then you will see the login screen.



The image shows a web browser window with a blue header bar containing the text "USER LOG IN" in white. Below the header, the page displays a login form. The form includes a "Site:" label followed by the IP address "192.168.2.1". Below that is an "ID:" label followed by a text input field containing the text "admin". Underneath is a "Password:" label followed by a password input field containing six black dots. At the bottom center of the form is a button labeled "OK".

Key in the user ID and the password to pass the authentication,

IP: 192.168.2.1

ID: admin

Password: admin

After the authentication procedure, the home page shows up.

Step 4:

On the following home page, select the configuration by clicking the icon. It includes,

- Administrator
- Port Management
- VLAN Setting
- QoS Setting
- Port Security
- Logout

The screenshot shows the configuration page for a 16-Port 10/100Mbps Modular Fast Ethernet Switch. The page has a dark blue header with the title "16-Port 10/100Mbps Modular Fast Ethernet Switch". On the left side, there is a light blue sidebar menu with the following items: Administrator, Port Management, VLAN Setting, Trunk Setting, QoS Setting, MAC Address Configuration, and Logout. The main content area has a white background and a dark blue header with the title "16-Port 10/100Mbps Modular Fast Ethernet Switch". Below the header, there is a welcome message: "Welcome to Use 16-Port 10/100Mbps Modular Fast Ethernet Switch" and a sub-header: "16 Ports plus 2 Expansion". The main content area is divided into three columns: Flow metering, VLAN Support, and Basic Feature. Each column contains a list of features.

Flow metering	VLAN Support	Basic Feature
<ul style="list-style-type: none">• Bandwidth control	<ul style="list-style-type: none">• VLAN Groups	<ul style="list-style-type: none">• Embedded HTTP web Management• Configuration Recovery• TFTP Software upgradeable• Auto-logout Security• Password security

Administrator: Authentication Configuration

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
 - Authentication Configuration
 - System IP Configuration
 - System Status
 - Load default setting
 - Firmware Update
- Port Management
- VLAN Setting
- Trunk Setting
- QoS Setting
- MAC Address Configuration
- Logout

Authentication Configuration

Setting	Value
Username	<input type="text" value="admin"/> max:15 Characters
Password	<input type="password" value="*****"/> max:15 Characters
Confirm Password	<input type="password" value="*****"/>

You can change the user name and the password, and click “Update” to confirm the new change. After that, you can reset this switch by power off and then power on to take the new user name and the password effectively.

Administrator: System IP Configuration

16-Port 10/100Mbps Modular Fast Ethernet Switch

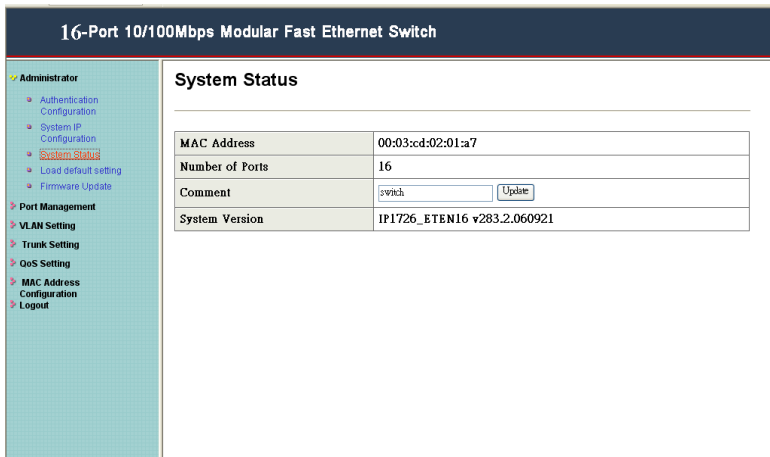
- Administrator
 - Authentication Configuration
 - System IP Configuration
 - System Status
 - Load default setting
 - Firmware Update
- Port Management
- VLAN Setting
- Trunk Setting
- QoS Setting
- MAC Address Configuration
- Logout

System IP Configuration

Setting	Value
IP Address	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="2"/> <input type="text" value="1"/>
Subnet Mask	<input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="0"/>
Gateway	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="2"/> <input type="text" value="254"/>

You can change the IP address by typing the new IP address and click “Update” to confirm the new change, and then the message will show “Setting Process OK!!”, After that, you should reset this switch by power off and then power on it to complete the new change.

Administrator: System Status



The screenshot shows the 'System Status' page of a '16-Port 10/100Mbps Modular Fast Ethernet Switch'. The left sidebar contains a navigation menu with the following items: Administrator (selected), Authentication Configuration, System IP Configuration, System Status (highlighted in red), Load default setting, Firmware Update, Port Management, VLAN Setting, Trunk Setting, QoS Setting, MAC Address Configuration, and Logout. The main content area displays the following system information:

System Status	
MAC Address	00:03:cd:02:01:a7
Number of Ports	16
Comment	<input type="text" value="switch"/> <input type="button" value="Update"/>
System Version	IP1726_ETEN16 v283.2.060921

It shows this switch MAC address, and you can select “Back to the last display” or “Logout” when the time’s out.

Administrator: Load Default Setting to EEPROM

The screenshot shows the web management interface for a 16-Port 10/100Mbps Modular Fast Ethernet Switch. The page title is "16-Port 10/100Mbps Modular Fast Ethernet Switch". On the left, there is a navigation menu with the following items: Administrator (selected), Authentication Configuration, System IP Configuration, System Status, Load default setting (highlighted in orange), and Firmware Update. Under Administrator, there are sub-menus: Port Management, VLAN Setting, Trunk Setting, QoS Setting, MAC Address Configuration, and Logout. The main content area is titled "Load Default Setting" and contains a single "Load" button.

You can click “Load” to load the new factory default setting, and then reset the switch by power off and then power on to take it effectively.

Administrator: Firmware Update

The screenshot shows the web management interface for a 16-Port 10/100Mbps Modular Fast Ethernet Switch. The page title is "16-Port 10/100Mbps Modular Fast Ethernet Switch". On the left, there is a navigation menu with the following items: Administrator (selected), Authentication Configuration, System IP Configuration, System Status, Load default setting, and Firmware Update (highlighted in orange). Under Administrator, there are sub-menus: Port Management, VLAN Setting, Trunk Setting, QoS Setting, MAC Address Configuration, and Logout. The main content area is titled "Firmware Update" and contains the following text: "Before updating the firmware, you should install the TFTP+DHCP server on your PC (web management station). Once completing the software installation and configuring the DHCP program as shown in the document, you should click the [update] button. The firmware will be update in one to two minutes." Below the text, there is an "Update" button.

Follow the instruction on the screen to update the new firmware. Please contact with your sales agents to get the latest firmware information.

Port Management: Port Control Configuration

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
 - **Port Configuration**
 - Port Mirroring
 - Bandwidth Control
 - Broadcast Storm Control
- VLAN Setting
- Trunk Setting
- QoS Setting
- MAC Address Configuration
- Logout

Port Configuration

Port No.	Tx & Rx	Link Capability	Duplex	Pause	Backpressure
01 ▾	Enable ▾	Auto-Nego. ▾	Full ▾	Enable ▾	Enable ▾

Port	Current Status				Setting Status				
	Link	Speed	Duplex	FlowCtrl	Tx&Rx	Capability	Duplex	Pause	Backpressure
1	---	---	---	---	Enable	Auto	full	on	on
2	---	---	---	---	Enable	Auto	full	on	on
3	---	---	---	---	Enable	Auto	full	on	on
4	---	---	---	---	Enable	Auto	full	on	on
5	---	---	---	---	Enable	Auto	full	on	on
6	---	---	---	---	Enable	Auto	full	on	on
7	---	---	---	---	Enable	Auto	full	on	on
8	---	---	---	---	Enable	Auto	full	on	on

Select the “Port No.” which you want to configure the mode below,

“Capability” - Auto-Nego. or force on 100M or 10M mode

“Duplex” - you can select the port is full/half-duplex or enable/disable this port.

Port Management: Port Mirroring

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
 - Port Configuration
 - **Port Mirroring**
 - Bandwidth Control
 - Broadcast Storm Control
- VLAN Setting
- Trunk Setting
- QoS Setting
- MAC Address Configuration
- Logout

Port Mirroring

Destination Port	<input type="text" value="01"/>							
Monitored Packets	<input type="text" value="Disable"/>							
Source Port	1	2	3	4	5	6	7	8
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9	10	11	12	13	14	15	16
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Only one destination port is active all the time.
2. If the Port number of source port is the same as the destination port, the source port will be ignored automatically by program.

Port mirroring is used to mirror traffic from the source port to a destination port for analysis.

Select the destination port from port 1 to port 16, and select the source port by click the checking box of the port.

Port Management: Bandwidth Control

16-Port 10/100Mbps Modular Fast Ethernet Switch

Bandwidth Control

Port No.	Tx Rate	Rx Rate
01	100M	100M

If the link speed of selected port is lower than the rate that you setting, this system will use the value of link speed as your setting rate.

Port No.	Tx Rate	Rx Rate	Link Speed	Port No.	Tx Rate	Rx Rate	Link Speed
1	100M	100M	100M	9	100M	100M	100M
2	100M	100M	100M	10	100M	100M	100M
3	100M	100M	100M	11	100M	100M	100M
4	100M	100M	100M	12	100M	100M	100M

Select the “Port No.” which you want to configure the mode below, “TX Rate” is meant you can set the maximum transmission rate of this selected port and choose the full speed or in 128K/256K/512K/1M/2M/4M/8M speed.

“RX Rate” is meant you can set the maximum receiving rate of this selected port and choose full speed or in 128K/256K/512K/1M/2M/4M/8M speed.

Port Management: Broadcast Storm Control

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
 - Port Configuration
 - Port Mirroring
 - Bandwidth Control
 - **Broadcast Storm Control**
- VLAN Setting
- Trunk Setting
- QoS Setting
- MAC Address Configuration
- Logout

Broadcast Storm Control

Enable	<input type="checkbox"/>
Threshold	<input style="width: 40px;" type="text" value="127"/> <small>1~127</small>

This value indicates the number of broadcast packet which is allowed to enter each port in one time unit. One time unit is 10 ms for 100Mbps speed and 100 ms for 10Mbps speed

You can enable or disable the broadcast storm protection feature by clicking “Update”.

VLAN Setting: Group VLAN Setting

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
- **VLAN Setting**
 - **Group VLAN Setting**
 - Multi to 1 Setting
- Trunk Setting
- QoS Setting
- MAC Address Configuration
- Logout

Group VLAN Setting

Group No	<input style="width: 80px;" type="text" value="01"/>							
Member Port	01	02	03	04	05	06	07	08
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
09	10	11	12	13	14	15	16	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comment	<input style="width: 100%; height: 15px;" type="text" value="....."/>							

Group	VLAN Member																Comment
-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	-
1	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	1111111
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

There are 8 VLAN groups, 01, 02, 03, 04, 05, 06, 07, 08 can be used.

You can select a group, and then click the port number which you want to put it into the selected VLAN group.

VLAN Setting: Multi to 1 Setting

16-Port 10/100Mbps Modular Fast Ethernet Switch


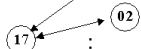
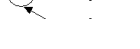
Multi to 1 Setting

Destination PortNo:

Current Setting

Disable Port	01	02	03	04	05	06	07	08
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	09	10	11	12	13	14	15	16
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. A example for Multi-to-1 structure

	Ports	VLAN Groups
		1
		2
		:

Destination Port/
Current Setting

This is a special design for easily setting the switch VLAN into "VLAN Per Port". After this setting, all ports can only connect to the destination port.

Trunk Setting: Trunk Configuration

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
- VLAN Setting
- Trunk Setting**
- QoS Setting
- MAC Address Configuration
- Logout

Trunk Configuration

Trunk Hash Algorithm Selection	<input checked="" type="radio"/> Port ID <input type="radio"/> SA <input type="radio"/> DA <input type="radio"/> SA & DA			
Trunk0	<input type="checkbox"/> Port1	<input type="checkbox"/> Port2	<input type="checkbox"/> Port3	<input type="checkbox"/> Port4
Trunk1	<input type="checkbox"/> Port5	<input type="checkbox"/> Port6	<input type="checkbox"/> Port7	<input type="checkbox"/> Port8

1. Selecting one port for a trunk will treated as a void setting.
2. Don't connect both trunks channels to a single switch, this will cause unlimited traffic loop once a broadcast packet is coming to any port of the switch.

Set up port trunk groups, and click the port number you want to include it into the same group. There are two groups to choose, and the maximum of ports for one group is 4.

QoS Setting: Priority Mode

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
- VLAN Setting
- Trunk Setting
- QoS Setting**
 - Priority Mode**
 - Class of Service Configuration
- MAC Address Configuration
- Logout

Priority Mode

Priority Mode	
Mode	<input checked="" type="radio"/> First-In-First-Service <input type="radio"/> All-High-before-Low <input type="radio"/> Weight-Round-Robin Low weight: <input type="text" value="0"/> High weight: <input type="text" value="0"/>

When the queue weight is set to "0", it will be treated as "8".

Click the priority mode you want, there are three priority modes to choose.

QoS Setting: Class of Service Configuration

16-Port 10/100Mbps Modular Fast Ethernet Switch

- Administrator
- Port Management
- VLAN Setting
- Trunk Setting
- QoS Setting
 - Priority Mode
 - Class of Service Configuration
- MAC Address Configuration
- Logout

Class of Service Configuration

Enable High Priority

Port No/Mode	Port Base	VLAN Tag	IP / DS	Port No/Mode	Port Base	VLAN Tag	IP / DS
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

As long as any of three COS schemes(802.1Q VLAN Tag,IP TOS/DS or Port Base) is mapped to "high", the data packet will be treated as the high priority.

You can select the class of service for each port.

MAC Address Configuration: MAC Address Configuration

16-Port 10/100Mbps Modular Fast Ethernet Switch

Administrator
Port Management
VLAN Setting
Trunk Setting
QoS Setting
MAC Address Configuration
Logout

MAC Address Configuration

Port No	MAC Address																		
1	<table border="1"><tr><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>ff</td></tr><tr><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>ff</td></tr><tr><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>ff</td><td>ff</td></tr></table> <input type="button" value="Read"/>	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff	ff
ff	ff	ff	ff	ff	ff														
ff	ff	ff	ff	ff	ff														
ff	ff	ff	ff	ff	ff														

Select Port: 01 Filter: Disable

Port No	Filter Status	Port No	Filter Status
1	Disable	9	Disable
2	Disable	10	Disable
3	Disable	11	Disable
4	Disable	12	Disable
5	Disable	13	Disable
6	Disable	14	Disable
7	Disable	15	Disable

Select the port number which you want to enable/disable the MAC address. For the filtering function of the port, please click "Update" to take the setting effectively.

Logout: You can click "Logout" to logout.